

(Twice Amended) A transgenic plant comprising a recombinant expression cassette comprising the polynucleotide of claim 12.

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8. (Amended) A transgenic seed from the transgenic plant of claim 4 comprising the recombinant expression cassette.

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12. (Amended) An isolated polynucleotide comprising a polynucleotide selected from the group consisting of:

- (a) a nucleic acid sequence having at least 80% sequence identity over the entire length of SEQ ID NO: 1, as determined by the GAP program under default parameters, wherein said sequence encodes a polypeptide having ATP-dependent DNA binding activity; and
- (b) a nucleic acid/sequence which is fully complementary to the nucleic acid sequence of (a).

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14. (Amended) An isolated polynucleotide comprising a nucleic acid sequence which selectively hybridizes to the full-length complement of SEQ ID NO: 1, under stringent hybridization conditions and a wash in 0.1X SSC at 60°C, wherein stringent hybridization conditions comprise 50% formamide, 1M NaCl, and 1% SDS at 37°C, wherein the polynucleotide encodes a polypeptide having ATP-dependent DNA binding activity.

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15. (Twice Amended) An Isolated polynucleotide comprising at least 30 contiguous nucleotides from the polynucleotide of SEQ ID NO: 1.

Please add new claims 16-39 as follows:

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(a) has at least 85% sequence identity to SEQ ID NO: 1.

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- 17. The isolated polynucleotide of claim/12, wherein the nucleic acid sequence of (a) has at least 90% sequence identity to SEQ ID NO: 1.
- 18. The isolated polynucleotide of claim 12, wherein the nucleic acid sequence of (a) has at least 95% sequence identity to SEQ ID NO: 1.
- The isolated polynucleotide of claim 12, wherein the polynucleotide is SEQ ID
  NO: 1.
- 20. An isolated polynucleotide comprising a member selected from the group consisting of:
  - (a) a nucleic acid sequence encoding a polypeptide having at least 90% sequence identity over the entire length of SEQ ID NO: 2, as determined by the GAP program under default parameters, wherein the encoded polypeptide has ATP-dependent DNA binding activity; and
  - (b) a nucleic acid sequence which is fully complementary to the nucleic acid sequence of (a).
- 21. The isolated polynucleotide of claim 20, wherein the nucleic acid sequence of (a) encodes a polypeptide having at least 95% sequence identity to SEQ ID NO: 2.
- 22. The isolated polynucleotide of claim 20, wherein the polynucleotide encodes the polypeptide of SEQ ID NO: 2.
- 23. A recombinant xpr ssion cassette comprising the polynucleotide of claim 20 operably linked to a promoter.



- 24. A non-human host cell comprising the recombinant expression cassette of claim 23.
- 25. A host cell of claim 24, wherein the host cell is a plant cell.

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- 26. A transgenic plant comprising the recombinant expression cassette of claim 23.
- 27. The transgenic plant of claim 26, wherein said plant is a monocot.
- 28. The transgenic plant of claim 26, wherein said plant is a dicot.
- 29. The transgenic plant of claim 26, wherein said plant is selected from the group consisting of maize, soybean, safflower, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.

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- 30. A transgenic seed from the transgenic plant of claim 26 comprising the recombinant expression cassette.
- A recombinant expression cassette comprising the polynucleotide of claim 14 operably linked to a promoter.



- 32. A non-human host cell comprising the recombinant expression cassette of claim 31.
- 33. A host cell of claim 32, wherein the host cell is a plant cell.

- 34. A transgenic plant comprising the recombinant expression cassette of claim31.
- 35. The transgenic plant of claim 34, wherein said plant is a monocot.
- 36. The transgenic plant of claim 34, wherein said plant is a dicot.
- 37. The transgenic plant of claim 34, wherein said plant is selected from the group consisting of maize, soybean, safflower, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.
- 38. A transgenic seed from the transgenic plant of claim 34 comprising the recombinant expression cassette.
- 39. An isolated polynucleotide comprising a nucleic acid sequence which encodes at least 20 contiguous amino acids from SEQ ID NO: 2.—